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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/581,555	06/02/2006	Shinichi Hori	040373-0389 6217		
	22428 7590 12/14/2007 FOLEY AND LARDNER LLP			EXAMINER	
SUITE 500			MOTTOLA, STEVEN J		
3000 K STREET NW WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER	
	,		2817		
			MAIL DATE	DELIVERY MODE	
			12/14/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/581,555	HORI, SHINICHI			
Office Action Summary	Examiner	Art Unit			
	Steven J. Mottola	2817			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim viil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status	•				
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under <i>E</i>	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on <u>02 June 2006</u> is/are: a) Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original than the correction of the control of the con	☐ accepted or b)☐ objected to drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6-2-06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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The disclosure is objected to because of the following informalities: figs. 1A,1B and 2 should be labeled as --prior art --.

Appropriate correction is required.

Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The last paragraph of claim 1 is unclear in that it specifies current is generated in accordance with the current that flows from the output of the input section active element to the input section active element.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Susak et al. in fig. 3 discloses a transistor 24 which will inherently perform voltage to current conversion between its base and collector. It is analogous to the input section active element of claim 1 for instance. Op amp 27 may be read as the potential control circuit of claim 1 since it will set the gain of the active elements 29,30 based on a potential at node 31 which is connected to the output terminal of transistor 24. Then transistor 30 may be read as the output section converter claimed as it too is controlled by op amp 27. However, the circuit lacks a current compensation connected to the output of transistor 24 for generating a DC current.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven J. Mottola whose telephone number is 571-272-1766. The examiner can normally be reached on M-Th from 8 to 5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Pascal, can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Steven J. Mottola Primary Examiner